IN THE CLAIMS

1.   (Currently Amended) A data insertion device comprising:

an input device which inputs compressed image data including a plurality of types of pictures;

a determining device which determines the type of the picture for each picture; and

an inserting device which inserts pattern data into each picture with an insertion intensity according to the type determined about the corresponding picture.

2.   (Original) The data insertion device of claim 1, wherein the inserting device modifies the pattern data to have the insertion intensity and inserts the modified pattern data into the picture.

3.   (Original) The data insertion device of claim 2, wherein the modification is done by multiplying the pattern data by a multiplier rate which is adjusted according to the determined type.

4.   (Original) The data insertion device of claim 1, wherein a group of pattern data are prepared each of which are generated so as to have the insertion intensity according to one of the types of the pictures, and the inserting device selects one of the group of pattern data and inserts them into the corresponding picture.

5.   (Original) The data insertion device of claim 1, wherein the pattern data includes information related to digital watermarking.

6.   (Original) The data insertion device of claim 1, wherein the image data are MPEG2 data, and the types of pictures includes I picture, P picture, and B picture.

7.   (Currently Amended) A method of inserting data, comprising the steps of:

inputting compressed image data including a plurality of types of pictures;

determining the type of the picture for each picture; and

inserting pattern data into each picture with an insertion intensity according to the type determined about the corresponding picture.

8.   (Original) The method of claim 7, wherein the inserting step modifies the pattern data to have the insertion intensity and inserts the modified pattern data into the picture.

9.   (Original) The method of claim 8, wherein the modification is done by multiplying the pattern data by a multiplier rate which is adjusted according to the determined type.

10.   (Original) The method of claim 7, wherein a group of pattern data are prepared each of which are generated so as to have the insertion intensity according to one of the types of the pictures, and the inserting step selects one of the group of pattern data and inserts them into the corresponding picture.

11.   (Original) The method of claim 7, wherein the pattern data includes information related to digital watermarking.

12.   (Original) The method of claim 7, wherein the image data are MPEG2 data, and the types of pictures includes I picture, P picture, and B picture.

13.   (Currently Amended) A recording medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform a method of inserting data, the method comprising the steps of:

inputting compressed image data including a plurality of types of pictures;

determining the type of the picture for each picture; and

inserting pattern data into each picture with an insertion intensity according to the type determined about the corresponding picture.

14.   (Currently Amended) A computer data signal embodied in a carrier wave and representing a sequence of instructions which, when executed by a processor, cause the processor to perform a method of inserting data, the method comprising the steps of:

inputting compressed image data including a plurality of types of pictures;

determining the type of the picture for each picture; and

inserting pattern data into each picture with an insertion intensity according to the type determined about the corresponding picture.

15.   (Currently Amended) A program product comprising, computer readable instructions and a recording medium bearing the computer readable instructions, the instructions being adaptable to enable a computer to perform a method of inserting data, the method comprising the steps of:

inputting compressed image data including a plurality of types of pictures;

determining the type of the picture for each picture; and

inserting pattern data into each picture with an insertion intensity according to the type determined about the corresponding picture.